

## **Jessica L. Burnett**

**Urban Ecology | Open Science | Computational Ecology**

### **Education**

#### **University of Nebraska-Lincoln, Lincoln, NE**

Ph.D. Natural Resource Sciences with specialization in Applied Ecology, expected 2019

#### **University of Florida, Gainesville, FL**

M.Sc. Wildlife Ecology and Conservation (2015)

B.Sc. Wildlife Ecology and Conservation (2013)

### **Professional Appointments**

#### **Graduate Research Assistant (2015 - )**

Nebraska Cooperative Fish & Wildlife Research Unit | University of Nebraska-Lincoln

- Explore methods for detecting and predicting regime shifts on long-term and spatially explicit data.
- Identify indicator species for predicting ecosystem regime shifts.
- Communication with local and international collaborators.
- Work with military base scientists to gather data.
- Write quarterly reports for Department of Defense

#### **Graduate Research Assistant (2013 - 2015)**

Department of Wildlife Ecology and Conservation | University of Florida

- Used open-source data to monitor invasive species' population trends.
- Developed occupancy models of non-native bird species in urban areas.
- Teaching assistant for courses *Wildlife Population Ecology*, *Wildlife Issues in a Changing World*, and *Biodiversity Conservation: Global Perspectives*

#### **GIS and Avian Ecology Intern (2013)**

Fish and Wildlife Research Institute | Florida Fish and Wildlife Research Conservation Commission \*

Investigated effects of agriculture and urbanization on American Kestrel (*Falco sparverius*) nest success.

#### **Research Assistant (2012-2013)**

Avian Ecology and Conservation Lab | University of Florida

- Investigated alignment of predation risk perception and predation risk of small forest birds.
- Managed seasonal bird banding database and banding supplies.

#### **Smithsonian Fellow and Florida Crew Leader (2011-2013)**

Neighborhood Nestwatch Program | Smithsonian Migratory Bird Center

- Targeted capture and banding of select species in participants' backyards.
- Banding demonstrations at local youth organizations.
- Organized and trained banding technicians.

#### **Project Volunteer (2012)**

Ordway Lab of Ecosystem Conservation | University of Florida

- Transcribed voice-recorded, behavioral foraging data.

- Identified louse from lowland manakins and flycatcher specimens.

## Peer-reviewed Publications

- [1] **Burnett, J.L.**, Moulton, M.P. 2015. Recent trends in House Sparrow (*Passer domesticus*) distribution and abundance in Gainesville, Alachua County, Florida. *Florida Field Naturalist* 43(4):167-172.
- [2] **Burnett, J.L.**, Sieving, K.E. Songbird distress call as a detection enhancement method and application to Red-shouldered Hawks (*Buteo lineatus*). Accepted in *Florida Field Naturalist* pending revisions.
- [3] **Burnett, J.L.**, Allen, C.R., Brown, M.B., and Roberts, C.R. Eurasian Tree Sparrow (*Passer montanus*) range expansion in North America. Accepted in *Biological Invasions* pending revisions.
- [4] Allen, C.R., Birge, H.B., Bartlett-Hunt, S.L., Bevans, R.A., **Burnett, J. L.**, Cosens, B.A., Cai, X., Garmestani, A.S., Linkov, I., Scott, E.A., Solomon, M.D., and Uden, D. Avoiding decline: Fostering resilience and sustainability in midsize cities. Under review at *Sustainability*.

## Service

### At the University of Nebraska-Lincoln

- 2016-      Founder & President, Natural Resources Diversity Initiative, University of Nebraska-Lincoln
- 2016-      Liaison, Faculty Advisory Committee, School of Natural Resources, University of Nebraska-Lincoln
- 2016      Organizer, Association for Women in Science Mentor Workshop, University of Nebraska-Lincoln
- 2016      Faculty Search Committee, Urban and Community Forester, University of Nebraska-Lincoln
- 2016      Seminar Coordinator, School of Natural Resources, University of Nebraska-Lincoln
- 2015-16   Department Representative Representative, Graduate Student Association, University of Nebraska-Lincoln
- 2015      Founder, Affiliate Chapter of the Association for Women in Science, University of Nebraska-Lincoln
- ####To the Profession
- 2016-      Reviewer, Wilson Journal of Ornithology
- 2016      Planning Committee for Inclusive Ecology Section, Ecological Society of America
- 2015-16   Liaison, Urban Ecosystem Ecology Section, Ecological Society of America

## Grants

### Research

- 2013      IFAS Research Internship for Undergraduates, University of Florida, **\$2,200**
- 2013      Ordway-Swisher Biological Station Undergraduate Research, University of Florida, **\$550**
- ####Travel
- 2016      Nelson Memorial Fellowship, University of Nebraska-Lincoln, **\$900**
- 2016      Center for Great Plains Studies, University of Nebraska-Lincoln, **\$750**
- 2016      American Ornithologists' Union, **\$250**
- 2015      NSF Diversity Award, Southeastern Ecology and Evolution Conference, **\$650**
- 2015      Department of Wildlife Ecology and Conservation, University of Florida, **\$250**
- 2015      Graduate Student Council, University of Florida, **\$350**
- 2015      Office of Research University of Florida, **\$500**
- 2014      Department of Wildlife Ecology and Conservation, University of Florida, **\$250**
- 2013      Office of Dean, Institute of Food and Agricultural Sciences, University of Florida, **\$750**

## Membership

- 2013      American Ornithologists' Union Undergraduate Student Membership Award

## Honors & Awards

2016-	AAAS/Science Program for Excellence in Science Award
2016-18	University of Nebraska Center for Great Plains Studies Graduate Fellow
2015-18	Othmer Recruitment Fellowship, University of Nebraska-Lincoln, <b>\$24,000</b>
2015-	Resilience Alliance Young Scholar
2014	2nd place, School of Natural Resources Elevator Speech Competition, <b>\$300</b>